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TI : Method of determining particle size of magnetic power - by applying magnetic field to suspension liq. of magnetic fine particles and determining remanent magnetic flux density of particles

AB : J03220442 A method of determining particle size of magnetic fine particles, comprises a process of applying a magnetic field to a suspension liq. of magnetic fine particles to align the fine particles in a given direction, stopping the application of the magnetic field, and then determining the remanent magnetic flux density of the magnetic fine particles.

- A method of determining the concn. of antigen or antibody in a liq. sample, comprises suspending magnetic fine particles fixed with antibody or antigen binding specifically with the analyte, the antigen or antibody, in a liq. sample contg. analyte, antigen or antibody, to cause agglutination of the magnetic fine particles by antigen-antibody reaction, applying a magnetic field to the suspension liq. contg. the agglutinated matter to align the magnetic fine particles, stopping the application of the magnetic field, and measuring the remanent magnetic flux density of the agglutinated matter to determine the particle size of the agglutinated matter.
- USE/ADVANTAGE - The method of determining the particle size of magnetic fine particles and a method of determining the concn. of antigen or antibody by utilising the method. According to the method, the particle size of magnetic fine particles can be determined in a short time even in high concn. region or in the presence of other coexisting substances, where optical determination cannot be carried out. Also the invention's method for determining antigen or antibody can be carried out in a short time without being affected by coexisting substances such as blood cells. As enzyme or radioactive substance is not used in the method, the determn. of antigen or antibody can be stably and safely carried out. (5pp Dwg/No.0/0)